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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/085,726	02/28/2002	Peter Michael Edic	RD-27054/USA-11	2407	
6147	7590 01/13/2003				
	ELECTRIC COMPA	EXAMINER			
PATENT DO	ESEARCH CENTER CKET RM. 4A59	FERNSTROM, KURT			
,	SLDG. K-1 ROSS A, NY 12309		ART UNIT	PAPER NUMBER	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3712		
			DATE MAILED: 01/13/2003	DATE MAILED: 01/13/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

					SM:				
		Application N	o.	Applicant(s)	. (
Office Action Summary		10/085,726		EDIC ET AL.					
		Examiner		Art Unit					
		Kurt Fernstron		3712					
The MAILIN Period for Reply	IG DATE of this communication ap	ppears on the cov	er sheet with the c	orrespondence ad	ldress				
THE MAILING DA - Extensions of time may after SIX (6) MONTHS - If the period for reply s; If NO period for reply within ti - Any reply received by ti	TATUTORY PERIOD FOR REPI TE OF THIS COMMUNICATION. The available under the provisions of 37 CFR 1. If from the mailing date of this communication. The provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1. The available under the provisions of 37 CFR 1.	.136(a). In no event, ho ply within the statutory r d will apply and will expi te, cause the application	nwever, may a reply be tim ninimum of thirty (30) days re SIX (6) MONTHS from n to become ABANDONEI	ely filed will be considered time the mailing date of this c O (35 U.S.C. § 133).					
1) Responsive	e to communication(s) filed on	·							
2a) This action	is FINAL . 2b)⊠ T	his action is non	-final.						
	application is in condition for allow				e merits is				
Disposition of Claim	ccordance with the practice unde s	r Ex parte Quayl	e, 1935 C.D. 11, 4	53 O.G. 213.					
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.									
4a) Of the above claim(s) is/are withdrawn from consideration.									
5) Claim(s) is/are allowed.									
6)☐ Claim(s) is/are rejected.									
7)	is/are objected to.								
· · · · · · · · · · · · · · · · · · ·	28 are subject to restriction and/or	election require	ment.						
Application Papers									
	ation is objected to by the Examin								
	s) filed on is/are: a) acce		-						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action. 12)☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S		Adminior.							
_	ment is made of a claim for foreig	an priority under	25119 C & 110(a)	\ (d) or (f)					
	Some * c) None of:	gn phonty under	55 0.5.C. § 119(a))-(u) 01 (1).					
	·	nts have been re	ceived						
/ <u>_</u>	2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)	2. 2. 2.2	, - ,		· · · · · ·					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) Other:									
C Patent and Trades of Com									

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DETAILED ACTION

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-17, drawn to a mathematical model, classified in class 434, subclass 188.
 - II. Claims 18-21, drawn to a method of simulating an imaging system, classified in class 434, subclass 267.
 - III.. Claims 22-28, drawn to an apparatus for, classified in class 434, subclass 267.
- 2. Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the mathematical model of Group I can be used in methods different from that claimed in Group II, including methods which do not include simulation of projection of rays, collection of rays and calculating ray sums.
- 3. Inventions II and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the method of Group III can be used to simulate models other than the anatomical models of Group III.

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- 4. Inventions I and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the subcombination of Group I has features including the transformation operators which are not part of the combination as claimed in Group III. The subcombination has separate utility such as use in apparatuses which do not include logics for simulation of projection of rays, collection of rays and calculating ray sums.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 6. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, and the search required for Group II is not required for Group III, and the search required for Group III is not required for Group II, restriction for examination purposes as indicated is proper.
- 7. A telephone call was made to Donald Ingraham on January 3, 2003 to request an oral election to the above restriction requirement, but did not result in an election being made.

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8. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kurt Fernstrom whose telephone number is (703) 305-0303.

KF

January 9, 2003

Kurt Fernstron